

ABSTRACT

A method and apparatus for tracking signals in a wireless communication system. In one embodiment, a base station includes a rake antenna having multiple fingers. When any of the fingers goes out of lock, the base station waits a predetermined time period and then adjusts the lock detect filter. The adjustment is based on comparison of received signal energy to an adjusted energy threshold. The comparison may result in an increased energy level of the filter. In one embodiment, if a mobile station is in soft hand-off, the base station ignores the lock state of the fingers and transmits power control information based on the received signal energy. If the mobile station is not in soft hand-off a predetermined power control pattern is applied for gradual power adjustment .